

# TCPIP232

## ATM TCPIP Interface



**OPERATION MANUAL**

June 15, 2006

## Introduction TCPIP232 ATM Interface.

TCPIP232 ATM Interface is designed to capture ATM transactions on ATM LAN system then convert captured transactions to serial port to interface with VSSI-Pro (ATM Serial Interface) or Digital Video Recorder (DVR) which supports text insertion and overlays transaction information to video.

## TCPIP232 Connections

There are 2 kinds of connection for TCPIP232

### 1. Stand alone with Digital Video Recorder

This connection will interface directly to DVR which supported Text Insertion. This insertion will interface via RS232C only from TCPIP232 rear panel. So Please consult your DVR manual or contact DVR manufacturer.

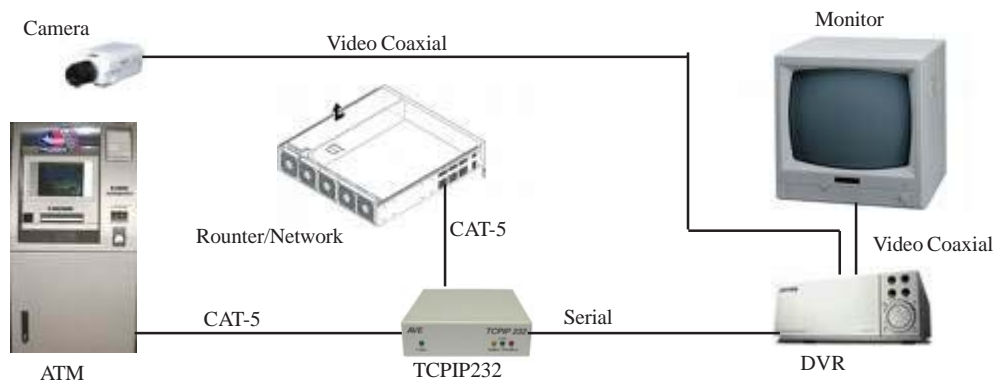


Figure 1. Stand alone connection

### 2. VSSI-pro Interface

VSSI-Pro has also supported text insertion and programmable gray scale and background of text insertion. User are able to define the ATM IP Address via Onscreen programming on VSSI-Pro Menu.

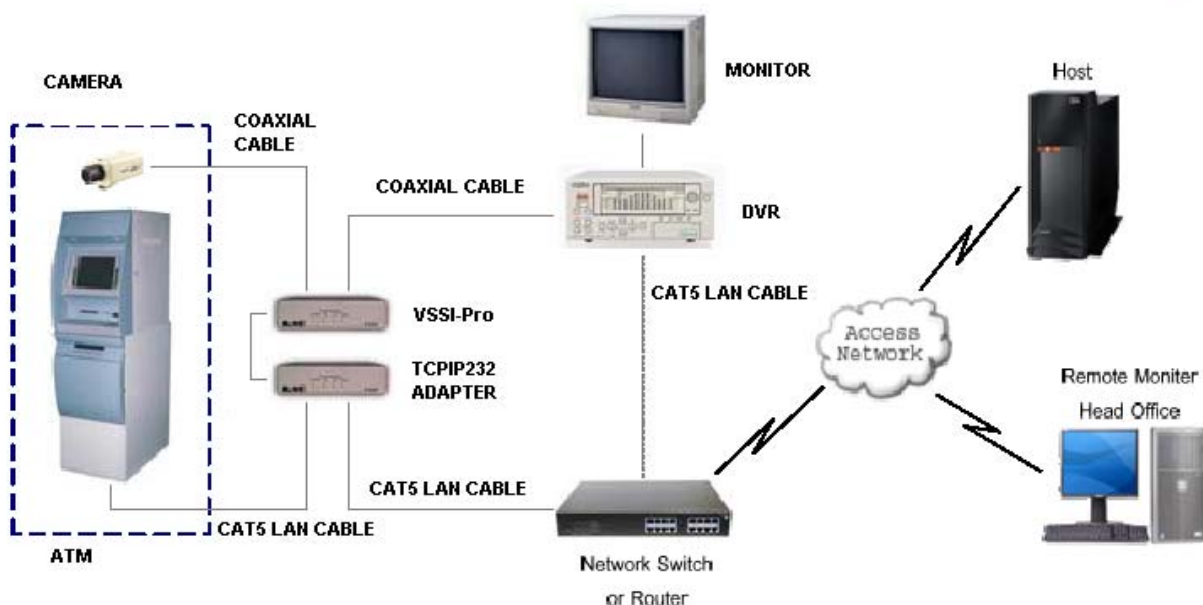


Figure 2. VSSI-Pro Interface

## TCPIP232 Hardware Configuration:

TCPIP232 hardware operation depends on your network connection. TCPIP232 is able to operate with HUB and Network Switcher. There are 2 hardware configurations:

### 1. Mirror Mode

This Mode supports HUB and Programmable Network Switchers. The user needs to provide a port for TCPIP232 to capture ATM transactions on the HUB and needs to mirror the ATM LAN port for TCPIP232 port to capture data. This kind of switcher we called “programmable network switcher” which is very expensive.

### 2. Tapping Mode.

The Tapping mode supports HUB and Typical Network Switcher. Tapping Mode captures ATM transactions by tapping receiving data at the ATM only. So HUB and Switch will not see TCPIP232 as a network device. see Figure 3

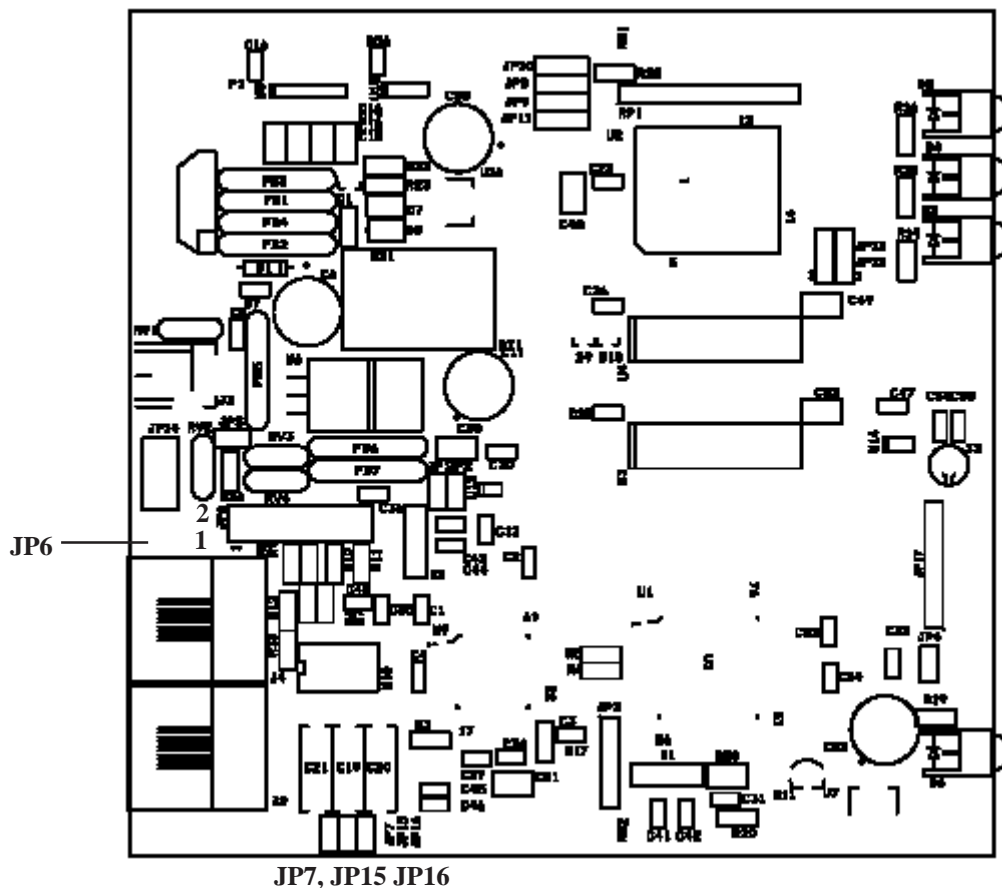


Figure 3. TCPIP232 Hardware Silkscreen

### **Tapping Mode Setup. (This is default from manufacturer)**

1. Close JP7 and JP15. Open JP16. (Lifted up Pin of C20 on Old PCB)
2. JP6 Close PIN5-6, PIN11-12

### **Mirror Mode Setup**

1. Close JP7, JP15, JP16 ( Need to install C20)
2. JP16 Close Pin1-2, Pin3-4, Pin5-6, Pin7-8, Pin9-10, Pin11-12, Pin13-14, Pin15-16

## TCPIP232 Setups

The user must be careful to unplug the LAN cable from the ATM. The ATM has the protection when there is no communication between the ATM and Host Server in limited time your ATM will be offline automatically. This period is called the "ATM Time Out". This time out depends on your ATM system. It is approximately 6-10 seconds.

### Stand alone Setup:

Connect the PC/DVR Cable which comes from the TCPIP232 adapter to your laptop. Power up your TCPIP232 and your laptop and run TCPIP232 Setup to program the IP Address of the TCPIP232. This IP address will be the same as the ATM machine. Unplug your PC/DVR Cable from your laptop and plug it to your DVR Com port. Now you need to program your DVR to display text insertion.

### VSSI-Pro Setup

Connect the TCPIP232 adapter to the VSSI-Pro with the provided cable, connect video, ATM LAN and power up both units.

1. Enter the VSSI-Pro Main Menu by simultaneously pressing and holding the DOWN and UP while then press and releasing RESET Button. The main menu will be displayed as below. So move cursor to ATM Select by press UP or DOWN button. Press SET to enter the ATM Select Menu.

### MAIN PROGRAMMING MENU

- \* ATM SELECT
- SCREEN SETUP
- TEXT DISPLAY
- COMMUNICATION
- EXCEPTION REPORT
- ALARM OUTPUTS
- TEST/DEMO MODE
- DWN/UP LOAD SETUP
- HELP

2. On ATM Select Menu, Move cursor to TCPIP Interface then press SET to enter

- SDLC
- BSYNC
- ASync
- CAMERA PORT
- JOURNAL PRINTER
- \*TCPIP INTERFACE
- CUSTOM
- EXIT

3. The Menu in TCPIP Interface will be displayed as below:

- \*TCPIP FORMAT I
- TCPIP DEBUGGING
- EXIT.

4. Select TCPIP Format I to enter and Change the IP Address the same as ATM's IP Address. **Example**, if the ATM's IP address is 192.168.0.141 So the address on TCPIP-232 Adapter this menu as:

```
*IP ADDRESS 1    192
IP ADDRESS 2    168
IP ADDRESS 3     0
IP ADDRESS 4    141
EXIT
```

1. Exit off to return to the main menu then press RESET button to operation mode.
2. Test you transaction on ATM to verify VSSI-Pro and TCPIP-232 Adapter's Operation.

## TCPIP232 LED Indicators

GREEN	POWER	TCPIP-232 Power Status
RED	RECEIVE	TCPIP-232 Receive Data from ATM
GREEN	LINK	ATM Status, On = Ready/OFF = Not ready
YELLOW	SPEED	OFF = 10Mbps, On = 100Mbps Ethernet

## Cables and Pin assignments:

### TCPIP232-PC/DVR Cable

This is RS232 Cable. User uses to programming IP Address on TCPIP232 and then remove and pluge to DVR to insert ASCII text on Video.

TCPIP232 Port	PC/DVR Port
DB9 Female	DB9 Female
Pin-5 (GND)-----	Pin-5 (GND)
Pin-2(RXD)-----	Pin-3 (TXD)
Pin-3(TXD)-----	Pin-2 (RXD)

### TCPIP232-VSSI-Pro Cable

This is also RS232 Cable. User users use to interface with VSSI-Pro. This cable also provided reached alarm cable to interface with alm systems. and also included Serial output to connect with DVR to get text insertion. This kind of text insertion will help user to used it to serach video by seraching from Text . This feature is for AVE DVR only.

TCPIP232	VSSI-Pro	DVR
Pin-5(GND)-----	Pin-5(GND)-----	Pin-5(GND)
Pin-2(RXD)-----	Pin-3(TXD)	
Pin-3(TXD)-----	Pin-2(RXD)	
	Pin-8(CTS)-----	Pin-2(RXD)
	Pin-1(Alarm)	

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**ASIA**

**AVE (Thailand) Co., Ltd.**

217/4 Crystal Garden  
Soi 4 (Nanatai), Sukhumvit Rd.  
Klongtoey, Klongtoey  
Bangkok, 10110 Thailand  
Tel: 662-656-8231  
Fax: 662-656-9554  
Email: [ave@avethailand.com](mailto:ave@avethailand.com)  
[www.avethailand.com](http://www.avethailand.com)

**NORTH AMERICA**

**AVE USA**

2000 West Governors Circle, Suite E  
Houston, Texas 77092  
Tel: 281-443-2300  
Fax: 281- 443-8915  
Email: [aveus@ave-us.com](mailto:aveus@ave-us.com)  
[www.americanvideoequipment.com](http://www.americanvideoequipment.com)

**WESTERN EUROPE**

**AVE Multiview**

Unit 1C, The Potteries,  
Woodgreen Road, Waltham Abbey  
Essex, EN9 3SA, UK  
Tel: 440-870-770-9323  
Fax: 440-870-770-9363  
Email: [ave-uk@multiview.net](mailto:ave-uk@multiview.net)  
[www.multiview.net](http://www.multiview.net)